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GE Mastics

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General Electric Company
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413-448-7110



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August 3, 1995

Document Control Officer (7407)
Office of Pollution Prevention and Toxic Substances, Room EG99
US Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: TSCA 8(e)

Contains No CBI

ORIGINAL

N-nitrosodimethylamine (CAS No. 62-75-9)
N-nitrosomorpholine (CAS No. 59-89-2)

General Electric Company (GE) submits the following information to the US Environmental Protection Agency (EPA) pursuant to Section 8(e) of the Toxic Substances Control Act.

Enclosed as Attachment A are two sets of industrial hygiene measurements of the workplace concentration of four nitrosoamines in areas adjacent to an enclosed chemical manufacturing process that uses N, N, N, N', N', N' - hexabutyl-1,6-hexanediaminium dibromide (CAS Number 69696-98-6) as a phase transfer catalyst.

The measurements were taken to determine baseline conditions prior to a trial of a different catalyst. Given the chemical structure of the catalyst, the presence of the two above-referenced nitrosamines was unexpected, which prompted this submission.

GE is attempting to validate this finding and establish the source of the two above-referenced nitrosamines or, in the alternative, determine whether the findings are an artifact of the analytical procedure. Additional information will be submitted to EPA when available.

This submission does not contain Confidential Business Information.

Please do not hesitate to contact me if you have any questions, (413) 448-4853.

Very truly yours,

Stephen F. Austin, Manager
Chemical Regulatory Programs



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TSCA 8(e)
Attachment A

Industrial Hygiene Measurements

Sample Type	Description	Sample date 6/12/95				Sample date 6/20/95			
		NDMA	NDEA	NDBA	NDMA	NDEA	NDBA	NMOR	
A	Catalyst charging station, 6th floor, top of Hopper	0.24	0.23	0.035	U	0.063	U	U	U
A	R230 agitator seals	U	0.043	0.05	0.012	0.046	0.082	U	U
A	R230 sample point	U	U	U	0.016	0.044	0.097	0.024	U
A	V240 sample point	U	U	U	0.017	0.01	0.03	0.036	U
A	T280 A Pump	U	U	U	0.077	0.01	0.0087	0.12	U
A	T280 B Pump	U	U	U	0.086	0.0077	U	0.24	U
A	Toluene sump vent	U	U	U	0.093	0.014	U	0.7	U
A	Displacement vent header discharge	U	U	U	U	0.015	0.04	U	U
A	6th floor salt dryer	U	U	U	U	0.021	0.061	U	U
P	Field operator-smoker	U	U	U	U	U	0.03	0.065	U
P	Board operator-nonsmoker	U	U	U	U	U	0.018	0.031	U
P	Shift lead-nonsmoker	U	U	U	U	U	0.019	U	U
P	Field Operator-nonsmoker	U	U	U	U	U	0.012	U	U
P	Contract ee - washing out condenser	U	U	U	U	U	0.079	U	U

A = Area Sample;
P = Personnel Sample

All results in ug/m³.

U=Undetected

NDMA - Nitrosodimethylamine - CAS No. 62-75-9
NDEA - Nitrosodiethylamine - CAS No. 55-18-5
NDBA - Nitrosodibutylamine - CAS No. 924-16-3
NMOR - Nitrosomorpholine - CAS No. 59-89-2

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